=> d his

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(FILE 'USPAT' ENTERED AT 13:59:58 ON 28 AUG 1997)
            509 S ((MULTI-PRECISION OR PRECISION) (3A) ARITHMETIC)
T.1
            404 S L1 AND (PROCESSOR# OR CPU#)
L2
            391 S L2 AND (MEMORY OR RAM OR STORAGE OR REGISTER#)
L3
            342 S L3 AND (BOOLEAN OR INTEGER OR FLOATING-POINT OR FLOATING
L4
 PO
            283 S L4 AND ((TRANSFER? OR TRANSMIT? OR SEND? OR RECEIV?)(5A)
L5
DAT
            154 S L5 AND (DATA(3A)(SIZE# OR LENGTH# OR WIDTH#))
L6
             69 S L6 AND ((DATA OR PEAK)(2A)(RATE# OR THROUGHPUT OR CAPACI
L7
TY)
             66 S L7 AND (PATH# OR CHANNEL#)
^{L8}
             34 S L6 AND (ARITHMETIC OR MATHEMAT?)/TI, AB
L9
             14 S L9 NOT L7
L10
             11 S L6 AND (MEDIA(3A)(DATA OR INFORMATION OR PROCESSOR# OR C
L11
PU#
             80 S (L8 OR L10)
L12
L13
             7 S L11 NOT L12
L14
             87 S (L12 OR L13)
             12 S L1 AND (MEDIA(3A) (DATA OR INFORMATION OR PROCESSOR# OR C
L15
PU#
L16
              1 S L15 NOT L14
             88 S (L14 OR L16)
L17
           5048 S (ARITHMETIC OR MATHEMAT?)/TI, AB
L18
            180 S L18 AND (MULTIPRECISION OR MULTI-PRECISION OR DOUBLE PRE
L19
CIS
            114 S L19 AND (PROCESSOR# OR CPU# OR EXECUT? OR MEDIA OR MANIP
L20
ULA
            104 S L20 NOT L17
L21
             51 S L21 AND ((DATA OR COMMUNICATION OR TRANSMISSION)(2W)(PAT
L22
Н#
             89 S L20 AND (INTEGER OR FLOATING POINT OR FLOATING-POINT)
L23
L24
             49 S L23 AND (RATE OR THROUGHPUT)
             77 S (L22 OR L24)
L25
             70 S L25 NOT L17
L26
            158 S (L17 OR L26)
L27
            107 S L27 AND (PROCESSOR# OR CPU# OR MEDIA OR RATE OR THROUGHP
L28
UT
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=> d 1-107

- 1. 5,659,495, Aug. 19, 1997, Numeric **processor** including a multiply-add circuit for computing a succession of product sums using redundant values without conversion to nonredundant format; Willard Stuart Briggs, et al., 364/736.02, 746.2 :IMAGE AVAILABLE:
- 2. 5,644,524, Jul. 1, 1997, Iterative division apparatus, system and method employing left most one's detection and left most one's detection with exclusive or; Jerry R. Van Aken, et al., 364/766 :IMAGE AVAILABLE:
- 3. 5,644,522, Jul. 1, 1997, Method, apparatus and system for multiply rounding using redundant coded multiply result; Philip Moyse, et al., 364/745.02, 746.2 :IMAGE AVAILABLE:
- 4. 5,640,588, Jun. 17, 1997, CPU architecture performing dynamic instruction scheduling at time of execution within single clock

- cycle; Anantakotiraju Vegesna, et al., 395/800.23; 364/230.3, 231.8, 262.4, DIG.1; 395/394 392 :IMAGE AVAILABLE:
- 5. 5,625,836, Apr. 29, 1997, SIMD/MIMD processing **memory** element (PME); Thomas N. Barker, et al., 395/200.44, 377, 474 :IMAGE AVAILABLE:
- 6. 5,606,677, Feb. 25, 1997, Packed word pair multiply operation forming output including most significant bits of product and other bits of one input; Keith Balmer, et al., 395/384; 364/757, DIG.1, DIG.2 :IMAGE AVAILABLE:
- 7. 5,606,374, Feb. 25, 1997, Video receiver display of menu overlaying video; Randal L. Bertram, 348/565; 345/114, 158; 348/601, 734 :IMAGE AVAILABLE:
- 8. 5,604,544, Feb. 18, 1997, Video receiver display of cursor overlaying video; Randal Lee Bertram, 348/601; 345/158; 348/563, 734 :IMAGE AVAILABLE:
- 9. 5,602,597, Feb. 11, 1997, Video receiver display of video overlaying menu; Randal L. Bertram, 348/565; 345/114, 158; 348/601, 734 :IMAGE AVAILABLE:
- 10. 5,600,847, Feb. 4, 1997, Three input arithmetic logic unit with mask generator; Karl M. Guttag, et al., 395/800.36; 364/DIG.1; 395/501, 800.34:IMAGE AVAILABLE:
- 11. 5,600,846, Feb. 4, 1997, Data processing system and method thereof; Michael G. Gallup, et al., 395/800.05, 800.03, 800.06 : IMAGE AVAILABLE:
- 12. 5,600,726, Feb. 4, 1997, Method for creating specific purpose rule-based n-bit virtual machines; Joseph M. Morgan, et al., 380/49, 4, 25: IMAGE AVAILABLE:
- 13. 5,598,571, Jan. 28, 1997, Data **processor** for conditionally modifying extension bits in response to data processing instruction execution; Michael G. Gallup, et al., 395/800.09; 364/931.03, 931.51, 944.4, 944.6, 946.7, DIG.2; 395/800.03, 800.22 :IMAGE AVAILABLE:
- 14. 5,590,350, Dec. 31, 1996, Three input arithmetic logic unit with mask generator; Karl M. Guttag, et al., 395/800.36; 364/DIG.1, DIG.2; 395/501, 800.34 :IMAGE AVAILABLE:
- 15. 5,590,345, Dec. 31, 1996, Advanced parallel array processor(APAP); Thomas N. Barker, et al., 395/800.11; 364/DIG.1, DIG.2; 395/800.14, 800.15 :IMAGE AVAILABLE:
- 16. 5,588,152, Dec. 24, 1996, Advanced parallel **processor** including advanced support hardware; Michael C. Dapp, et al., 395/800.16 :IMAGE AVAILABLE:
- 17. 5,583,805, Dec. 10, 1996, Floating-point processor having post-writeback spill stage; Timothy A. Elliott, et al., 364/748.01:IMAGE AVAILABLE:
- 18. 5,572,689, Nov. 5, 1996, Data processing system and method thereof; Michael G. Gallup, et al., 395/376; 364/DIG.2 :IMAGE AVAILABLE:
- 19. 5,561,617, Oct. 1, 1996, Pyramid **processor** integrated circuit; Gooitzen S. van der Wal, 364/724.05, 724.13 :IMAGE AVAILABLE:
- 20. 5,559,973; Sep. 24, 1996, Data processing system and method thereof; Micheal G. Gallup, et al., 395/588; 364/DIG.1 :IMAGE AVAILABLE:
- 21. 5,548,768, Aug. 20, 1996, Data processing system and method thereof;

- Michael G. Gallup, et al., 395/376; 364/DIG.1 : IMAGE AVAILABLE:
- 22. 5,539,479, Jul. 1996, Video receiver display cursor and menu overlaying video; Randal L. Bertram, 348/564; 345/120, 158; 348/601, 734: IMAGE AVAILABLE:
- 23. 5,530,662, Jun. 25, 1996, Fixed point signal **processor** having block floating processing circuitry; Hisami Ide, 364/736.01 :IMAGE AVAILABLE:
- 24. 5,517,436, May 14, 1996, Digital signal processor for audio applications; David C. Andreas, et al., 364/736.04, 736.02, 768 :IMAGE AVAILABLE:
- 25. 5,512,896, Apr. 30, 1996, Huffman encoding method, circuit and system employing most significant bit change for size detection; Christopher J. Read, et al., 341/65: IMAGE AVAILABLE:
- 26. 5,509,129, Apr. 16, 1996, Long instruction word controlling plural independent **processor** operations; Karl M. Guttag, et al., 395/379; 364/736.04; 395/800.24 :IMAGE AVAILABLE:
- 27. 5,508,951, Apr. 16, 1996, **Arithmetic** apparatus with overflow correction means; Toshihiro Ishikawa, 364/745.03 :IMAGE AVAILABLE:
- 28. 5,479,166, Dec. 26, 1995, Huffman decoding method, circuit and system employing conditional subtraction for conversion of negative numbers; Christopher J. Read, et al., 341/65 : IMAGE AVAILABLE:
- 29. 5,426,600, Jun. 20, 1995, **Double precision** division circuit and method for digital signal **processor**; Tetsuya Nakagawa, et al., 364/764, 761, 766 :IMAGE AVAILABLE:
- 30. 5,400,403, Mar. 21, 1995, Abuse-resistant object distribution system and method; Paul N. Fahn, et al., 380/21, 4, 25 :IMAGE AVAILABLE:
- 31. 5,388,236, Feb. 7, 1995, Digital signal **processor** with multiway branching based on parallel evaluation of N threshold values followed by sequential evaluation of M; Tokumichi Murakami, et al., 395/583; 364/221.4, 261.5, DIG.1; 395/800.36: IMAGE AVAILABLE:
- 32. 5,359,674, Oct. 25, 1994, Pyramid **processor** integrated circuit; Gooitzen S. van der Wal, 382/261, 240, 299 :IMAGE AVAILABLE:
- 33. 5,307,506, Apr. 26, 1994, High bandwidth multiple computer bus apparatus; Robert P. Colwell, et al., 395/307; 364/229, 240, 240.2, 240.5, DIG.1; 395/287 :IMAGE AVAILABLE:
- 34. 5,267,186, Nov. 30, 1993, Normalizing pipelined **floating point** processing unit; Smeeta Gupta, et al., 364/748.14, 715.04, 748.13 :IMAGE AVAILABLE:
- 35. 5,233,698, Aug. 3, 1993, Method for operating data **processors**; William S. Zuk, 395/560; 364/950, 950.3, DIG.2 :IMAGE AVAILABLE:
- 36. 5,222,230, Jun. 22, 1993, Circuitry for transferring data from a data bus and temporary register into a plurality of input registers on clock edges; Michael C. Gill, et al., 395/559; 364/228.6, 232.8, 238, 239, 239.7, 240, 247, 247.4, 247.6, 247.8, 258, 258.1, 258.2, 259, 259.2, 260, 260.2, 263, 265, 266.3, 271.9, DIG.1 :IMAGE AVAILABLE:
- 37. 5,187,799, Feb. 16, 1993, Arithmetic-stack processor which precalculates external stack address before needed by CPU for building high level language executing computers; Anthony McAuley, et al., 395/800.36; 364/228.2, 231.8, 232.23, 232.3, 232.8, 238, 239, 239.8,

- 240, 244, 244.3, 245.7, 247, 247.3, 247.7, 247.8, 258, 258.1, 259, 259.1, 259.5, 262.4, 262.8, 2.9, 270, 270.4, 271.5, 280.4, 5.1 :IMAGE AVAILABLE:
- 38. 5,062,041, Oct. 29, 1991, **Processor**/coprocessor interface apparatus including microinstruction clock synchronization; William S. Zuk, 395/562; 364/228, 228.6, 240.3, 262.4, 262.7, 262.8, 270, 270.3, 270.5, 271, 271.6; 395/553, 800.34 :IMAGE AVAILABLE:
- 39. 5,058,048, Oct. 15, 1991, Normalizing pipelined **floating point** processing unit; Smeeta Gupta, et al., 364/748.14, 748.13: IMAGE AVAILABLE:
- 40. 5,053,631, Oct. 1, 1991, Pipelined floating point processing unit; Robert M. Perlman, et al., 364/748.14 :IMAGE AVAILABLE:
- 41. RE 33,629, Jul. 2, 1991, Numeric data **processor**; John F. Palmer, et al., 364/748.16, 258, 715.08, 737, 748.02 :IMAGE AVAILABLE:
- 42. 5,029,069, Jul. 2, 1991, Data **processor**; Ken Sakamura, 395/581; 364/259, 261.5, 736.5 : IMAGE AVAILABLE:
- 43. 4,975,868, Dec. 4, 1990, **Floating-point processor** having pre-adjusted exponent bias for multiplication and division; Donald L. Freerksen, 364/748.09, 748.1 :IMAGE AVAILABLE:
- 44. 4,949,247, Aug. 14, 1990, System for transferring multiple vector data elements to and from vector memory in a single operation; R. Ashley Stephenson, et al., 395/800.06; 364/228, 228.1, 231.4, 231.8, 232.21, 236.8, 238, 238.4, 239, 239.4, 241.9, 242.6, 242.8, 244, 244.8, 247, 247.4, 256.3, 256.5, 258, 259, 259.9, 271, 271.2, 736.03, DIG.1; 395/800.07 :IMAGE AVAILABLE:
- 45. 4,947,359, Aug. 7, 1990, Apparatus and method for prediction of zero arithmetic/logic results; Stamatis Vassiliadis, et al., 364/715.09, 736.5 :IMAGE AVAILABLE:
- 46. 4,945,479, Jul. 31, 1990, Tightly coupled scientific processing system; John T. Rusterholz, et al., 395/800.03; 364/228, 228.1, 228.6, 228.9, 230, 230.3, 232.21, 239.9, 243, 243.1, 255.1, 280, 281.3, DIG.1:IMAGE AVAILABLE:
- 47. 4,924,422, May 8, 1990, Method and apparatus for modified carry-save determination of **arithmetic**/logic zero results; Stamatis Vassiliadis, et al., 364/715.09, 736.5 :IMAGE AVAILABLE:
- 48. 4,916,651, Apr. 10, 1990, Floating point **processor** architecture; Michael C. Gill, et al., 364/748.13, 750.5 : IMAGE AVAILABLE:
- 49. 4,901,268, Feb. 13, 1990, Multiple function data **processor**; James E. Judd, 364/748.19, 749 :IMAGE AVAILABLE:
- 50. 4,875,161, Oct. 17, 1989, Scientific **processor** vector file organization; Archie E. Lahti, 395/484; 364/222.81, 231.8, 232.21, 243.1, 246, 246.3, 252, 254, 254.2, 254.3, 263, 268.5, 271.6, 736.03, DIG.1; 395/405, 496 :IMAGE AVAILABLE:
- 51. 4,873,630, Oct. 10, 1989, Scientific **processor** to support a host **processor** referencing common **memory**; John T. Rusterholz, et al., 395/800.03; 364/228.1, 228.3, 231.8, 232.21, 232.7, 258, 258.1, 258.2, 263, DIG.1; 395/800.05, 800.06, 800.09 :IMAGE AVAILABLE:
- 52. 4,858,115, Aug. 15, 1989, Loop control mechanism for scientific **processor**; John T. Rusterholz, et al., 395/800.07; 364/228.1, 228.2, 228.5, 228.6, 229, 229.1, 231.9, 232.21, 232.22, 232.7, 238.5, 239.4,

- 241.9, 242.6, 242.91, 243, 244.3, 246, 246.3, 247, 247.8, 259.9, 262, 262.1, 265, 265.3, 2 271.2, 271.6, 927.92, 927.95, 931, 931.4, 931.51, 937.1, 937.7, 38, 938.1, 940, 940.4, 942.7, 9.9, 946.8, 950, 950.3, 964, 965.4, 966.1, 966.4, 977, DIG.1, DIG.2; 395/800.04 :IMAGE AVAILABLE:
- 53. 4,852,048, Jul. 25, 1989, Single instruction multiple data (SIMD) cellular array processing apparatus employing a common bus where a first number of bits manifest a first bus portion and a second number of bits manifest a second bus portion; Steven G. Morton, 395/800.11; 364/228.6, 229, 229.4, 231.9, 232.8, 232.9, 238, 240, 240.1, 244, 244.6, 244.8, 244.9, 245, 245.3, 247, 247.8, 256.3, 265, 266.3, 267, 267.7, 268, 268.9, 280, 280.2, 280.3, DIG.1; 395/800.22 :IMAGE AVAILABLE:
- 54. 4,833,599, May 23, 1989, Hierarchical priority branch handling for parallel **execution** in a parallel **processor**; Robert P. Colwell, et al., 395/583; 364/228.3, 231.8, 242.3, 242.6, 242.7, 247, 258, 258.1, 258.2, 259, 261.3, 261.5, 261.9, 262.4, 262.9, DIG.1; 395/800.24 :IMAGE AVAILABLE:
- 55. 4,797,808, Jan. 10, 1989, Microcomputer with self-test of macrocode; Jeffrey D. Bellay, et al., 395/183.06; 364/228.6, 232.8, 232.9, 240, 240.2, 244, 244.8, 245, 245.31, 245.4, 246.91, 247, 247.3, 247.6, 249, 249.2, 252, 258, 262.4, 262.7, 262.8, 265, 265.6, 266.3, 270, 270.3, 271.6, DIG.1 :IMAGE AVAILABLE:
- 56. 4,794,517, Dec. 27, 1988, Three phased pipelined signal **processor**; Gardner D. Jones, et al., 395/800.32; 364/221, 221.4, 231.8, 232.8, 232.9, 238, 239, 239.51, 240, 240.1, 240.2, 241.9, 242.3, 242.31, 242.32, 243, 243.3, 244, 244.3, 244.8, 247, 247.3, 247.8, 252, 254, 254.5, 258, 258.2, 259, 259.9, 260.4, 260.8, 261, 261.1, 262, 262.1, 262.4, 263, 263.2, 267, 267.5, 267.8, 270, 270.4, 271.6, 271.7, DIG.1:IMAGE AVAILABLE:
- 57. 4,791,590, Dec. 13, 1988, High performance signal **processor**; Walter H. Ku, et al., 364/726.02, 726.06, 736.02 :IMAGE AVAILABLE:
- 58. 4,791,403, Dec. 13, 1988, Log encoder/decorder system; Joan L. Mitchell, et al., 341/51, 63, 75; 364/715.02, 748.01, 748.5, 857 :IMAGE AVAILABLE:
- 59. 4,777,613, Oct. 11, 1988, **Floating point** numeric data **processor**; Van B. Shahan, et al., 364/748.16, 223, 224, 228.6, 240, 240.2, 240.7, 244, 244.9, 258, 258.4, 262.4, 262.8, DIG.1 :IMAGE AVAILABLE:
- 60. 4,760,525, Jul. 26, 1988, Complex arithmetic vector processor for performing control function, scalar operation, and set-up of vector signal processing instruction; Richard F. Webb, 395/800.02; 364/DIG.1:IMAGE AVAILABLE:
- 61. 4,748,580, May 31, 1988, Multi-precision fixed/floating-point processor; Charles D. Ashton, et al., 364/748.19:IMAGE AVAILABLE:
- 62. 4,694,398, Sep. 15, 1987, Digital image frame **processor**; Francis R. Croteau, 382/309; 378/901 :IMAGE AVAILABLE:
- 63. 4,680,701, Jul. 14, 1987, Asynchronous high speed **processor** having high speed memories with domino circuits contained therein; Michael J. Cochran, 395/800.4; 364/232.8, 236.2, 237.2, 237.3, 238, 243, 243.6, 246.13, 246.3, 258, 270, 270.4, 270.5, 270.9, 271.5, 281.3, DIG.1; 365/194, 233 :IMAGE AVAILABLE:
- 64. 4,672,360, Jun. 9, 1987, Apparatus and method for converting a

- number in binary format to a decimal format; John J. Bradley, et al., 341/104; 364/715.011 MAGE AVAILABLE:
- 65. 4,667,190, May 19, 1987, Two axis fast access **memory**; Karl M. Fant, 345/200 :IMAGE AVAILABLE:
- 66. 4,638,450, Jan. 20, 1987, Equal nine apparatus for supporting absolute value subtracts on decimal operands of unequal length; Brian L. Stoffers, 364/715.011, 768 :IMAGE AVAILABLE:
- 67. 4,627,021, Dec. 2, 1986, Integrated **processor** for the processing of word-wise receivable data; Eric H. J. Persoon, et al., 395/800.36; 364/927.8, 933, 933.1, 937.1, 937.4, 937.8, 940, 942, 942.03, 947, 947.6, 957, 957.1, 957.8, 966.1, 966.7, DIG.2 :IMAGE AVAILABLE:
- 68. 4,620,287, Oct. 28, 1986, Method and apparatus for representation of a curve of uniform width; David S. Yam, 395/142; 345/136; 396/556 :IMAGE AVAILABLE:
- 69. 4,615,016, Sep. 30, 1986, Apparatus for performing simplified decimal multiplication by stripping leading zeroes; John J. Bradley, et al., 364/756, 754.01 :IMAGE AVAILABLE:
- 70. 4,608,659, Aug. 26, 1986, **Arithmetic** logic unit with outputs indicating invalid computation results caused by invalid operands; John J. Bradley, et al., 364/737: IMAGE AVAILABLE:
- 71. 4,604,722, Aug. 5, 1986, Decimal **arithmetic** logic unit for doubling or complementing decimal operand; Theodore R. Staplin, Jr., et al., 364/715.011, 754.01 : IMAGE AVAILABLE:
- 72. 4,580,216, Apr. 1, 1986, Microcomputer with internal selection of on-chip or off-chip access; Jeffrey D. Bellay, et al., 395/800.37; 364/232.8, 240, 240.2, 247, 247.8, 254.8, 258, 259, 262, 262.2, 262.4, 262.7, 262.8, DIG.1 :IMAGE AVAILABLE:
- 73. 4,580,215, Apr. 1, 1986, Associative array with five **arithmetic** paths; Steven G. Morton, 395/800.13; 364/229, 229.5, 231.9, 238, 238.6, 238.7, 238.8, 240, 240.2, 244, 244.2, 244.8, 253, 253.3, 258, 258.4, 259, 259.5, 259.6, 716.03, 736.5, DIG.1 :IMAGE AVAILABLE:
- 74. 4,562,537, Dec. 31, 1985, High speed **processor**; Howard S. Barnett, et al., 395/562; 364/232.7, 232.8, 234, 235, 236.2, 237.2, 237.3, 237.8, 238, 240, 240.2, 242.4, 243, 244, 244.3, 244.6, 246, 246.3, 248.1, 252, 258, 259, 259.8, 260, 260.2, 263.1, DIG.1; 395/800.32 :IMAGE AVAILABLE:
- 75. 4,495,563, Jan. 22, 1985, Microcomputer having separate access to complete microcode words and partial microcode words; Kevin C. McDonough, 395/800.42; 364/232.8, 243, 243.3, 244, 244.6, 252, 262.4, 262.7, 262.8, DIG.1 :IMAGE AVAILABLE:
- 76. 4,490,783, Dec. 25, 1984, Microcomputer with self-test of microcode; Kevin C. McDonough, et al., 395/568; 364/232.8, 243, 244, 244.6, 252, 262.4, 262.7, 262.8, 267, DIG.1; 371/40.18; 395/595 :IMAGE AVAILABLE:
- 77. 4,484,259, Nov. 20, 1984, Fraction bus for use in a numeric data **processor**; John Palmer, et al., 364/754.01, 736.01, 748.09, 761 :IMAGE AVAILABLE:
- 78. 4,471,426, Sep. 11, 1984, Microcomputer which fetches two sets of microcode bits at one time; Kevin C. McDonough, 395/387; 364/232.7, 232.8, 236.2, 236.3, 244, 244.6, 247, 247.2, 247.3, 247.6, 251, 251.3, 253, 253.2, 258, 259, 259.9, 262.4, 262.7, 262.8, 263.1, 280, 280.9, DIG.1; 395/598 :IMAGE AVAILABLE:

- 79. 4,467,444, Aug. 1984, **Processor** unit for micromputer systems; William J. H. mon, Jr., et al., 395/800.42; 3./736.01, 926.1, 926.5, 931, 931.1, 933, 933.1, 933.62, 933.9, 934, 934.1, 937.1, 940, 942, 942.8, 947, 947.1, 947.4, 947.6, 948, 957, 957.4, 959, 965, 965.3, DIG.2; 395/561 :IMAGE AVAILABLE:
- 80. 4,455,602, Jun. 19, 1984, Digital data processing system having an I/O means using unique address providing and access priority control techniques; Ward Baxter, III, et al., 395/825; 364/228.1, 228.3, 231.4, 231.6, 232.1, 243, 243.3, 244, 244.3, 246.6, 262.4, 262.8, 263, 280, 280.4, 281.3, 281.4, DIG.1; 395/859, 885 :IMAGE AVAILABLE:
- 81. 4,450,525, May 22, 1984, Control unit for a functional processor; Gordon L. Demuth, et al., 395/590; 364/221, 221.4, 221.5, 224, 224.2, 230, 230.3, 231.8, 238.4, 239, 239.1, 244, 244.3, 244.4, 244.6, 244.8, 247, 247.2, 254, 254.3, 254.5, 258, 258.1, 258.2, 259, 259.5, 260, 260.2, 261.3, 261.9, 262, 262.4, 262.8, 270.3, 280, 280.2, 281.3, DIG.1; 395/595, 733 :IMAGE AVAILABLE:
- 82. 4,450,521, May 22, 1984, Digital **processor** or microcomputer using peripheral control circuitry to provide multiple memory configurations and offset addressing capability; Kevin C. McDonough, et al., 395/823; 364/232.8, 232.9, 238.3, 239, 239.6, 240, 240.1, 240.2, 241.2, 241.6, 244, 244.1, 244.3, 244.5, 244.6, 245, 245.31, 245.4, 245.5, 246.91, 247, 247.2, 251, 251.3, 252, 258, 259, 259.9, 262.4, 262.8, 263.2, 270, DIG.1:IMAGE AVAILABLE:
- 83. 4,449,196, May 15, 1984, Data processing system for multi-precision arithmetic; Eric K. Pritchard, 364/768, 745.01, 921, 921.2, 921.3, 921.8, 921.9, 926.9, 931.4, 931.44, 931.48, 935, 935.2, 935.4, 935.44, 937.1, 937.2, 937.7, 937.8, 939, 939.1, 939.4, 939.7, 940, 940.2, 941, 941.1, 942.3, 942.4, 942.5, 942.7, 942.8, 943.9, 944.6, 944.9, 946.2, 946.7, 948.2, 949, 950, 950.2, 950.3, 950.4, 950.61, 951.1, 951.4, 964, 964.5, 964.7, 966, 966.4, 967, 967.3, DIG.2 :IMAGE AVAILABLE:
- 84. 4,445,177, Apr. 24, 1984, Digital data processing system utilizing a unique arithmetic logic unit for handling uniquely identifiable addresses for operands and instructions; Richard G. Bratt, et al., 395/595; 364/228.3, 231.4, 231.6, 232.1, 238.4, 239, 239.7, 241.2, 241.3, 241.5, 241.9, 243, 243.4, 243.41, 243.43, 244, 244.3, 244.6, 246.6, 246.7, 246.8, 246.9, 246.91, 247, 247.2, 247.7, 247.8, 254, 254.3, 254.5, 256.8, 258, 258.2, 258.3, 259, 259.5, 259.8, 261.3, 261.6, 262.4, 262.7, 262.8, 262.81, 263, 263.2, 263.3, 265, 265.3, 266, 266.1, 267, 267.6, 267.9, 270, 270.1, 271, 271.3, 271.4, 271.6, 271.8, 280, 280.1, 280.4, 280.8, 280.9, 281, 281.3, 281.4, 281.5, 281.6, 281.7, 281.8, 282, 282.1, 282.2, 284, 284.3, DIG.1 :IMAGE AVAILABLE:
- 85. 4,441,154, Apr. 3, 1984, Self-emulator microcomputer; Kevin C. McDonough, et al., 395/800.43; 364/221, 221.6, 232.3, 232.8, 232.9, 238.6, 238.7, 239, 239.6, 240.1, 241.2, 241.6, 242, 244, 244.3, 244.6, 254, 254.3, 258, 260.4, 260.8, 261.3, 261.9, 262.4, 262.7, 262.8, 270, 270.4, DIG.1; 395/500, 733 :IMAGE AVAILABLE:
- 86. 4,423,483, Dec. 27, 1983, Data **processor** using a read only memory for selecting a part of a register into which data is written; Steven A. Tague, et al., 395/898; 364/228.6, 229, 229.2, 230, 230.3, 230.4, 240, 240.1, 240.2, 240.8, 240.9, 243, 243.4, 243.41, 252.3, 252.6, 255.1, 255.7, 258, 258.1, 258.2, 258.3, 259, 259.5, 259.6, 259.7, 264, 264.1, 264.5, DIG.1 :IMAGE AVAILABLE:
- 87. 4,390,961, Jun. 28, 1983, Data **processor** performing a decimal multiply operation using a read only memory; Virendra S. Negi, et al., 364/756 :IMAGE AVAILABLE:

- 88. 4,389,706, Jun. 1983, Digital computer monitoral and/or operated system or process which is structured for operation with an improved automatic programming process and system; John W. Gomola, et al., 364/130, 226.7, 227.4, 231.4, 231.6, 237.8, 241.2, 241.3, 241.5, 259, 259.3, 260, 260.1, 260.4, 260.6, 281.3, 281.6, 281.8, 282.1, 282.3, 283.1, 468.03, 468.15, 492, 550, DIG.1 :IMAGE AVAILABLE:
- 89. 4,378,589, Mar. 29, 1983, Undirectional looped bus microcomputer architecture; Edward D. Finnegan, et al., 395/310; 364/229, 229.2, 231.8, 232.8, 238, 238.4, 239, 239.8, 240, 240.1, 240.2, 241.1, 241.2, 241.6, 241.9, 243, 244, 244.6, 247, 247.8, 258, 258.4, 259, 259.9, 260, 260.1, 262.4, 262.8, 263, 270, 270.4, 271.6, 271.7, 271.8, DIG.1 :IMAGE AVAILABLE:
- 90. 4,339,793, Jul. 13, 1982, Function integrated, shared ALU **processor** apparatus and method; George B. Marenin, 395/800.32; 364/229, 229.3, 231.4, 231.7, 231.8, 232.3, 232.8, 238, 240, 240.1, 240.2, 241.1, 241.2, 241.3, 241.5, 241.9, 242.3, 243, 243.3, 244, 244.3, 247, 247.1, 247.2, 247.3, 247.4, 251, 251.1, 252.3, 252.6, 255.1, 259, 259.7, 260, 260.1, 260.2, 261, 261.2, 261.3, 261.4, 261.5, 262.4, 262.8, 263, 263.1, 270, 270.3, 271.6, 271.7, DIG.1; 395/726 :IMAGE AVAILABLE:
- 91. 4,338,675, Jul. 6, 1982, Numeric data **processor**; John F. Palmer, et al., 364/748.16, 224, 230, 230.4, 232.8, 240, 244, 244.3, 247, 247.8, 258, 258.1, 258.2, 258.3, 258.4, 259, 259.5, 259.7, 260.4, 260.9, 263, 263.1, 264, 264.2, 265, 265.4, 266.4, 271, 271.2, 715.08, 737, 748.02, DIG.1 : IMAGE AVAILABLE:
- 92. 4,312,034, Jan. 19, 1982, ALU and Condition code control unit for data **processor**; Thomas G. Gunter, et al., 395/595; 364/231.9, 238.6, 239, 239.3, 239.4, 241.2, 241.6, 242.1, 243, 243.3, 244, 244.6, 247, 247.6, 254, 254.2, 258, 258.1, 258.2, 258.3, 259, 259.1, 259.6, 259.9, 261.3, 261.5, 262.4, 262.6, 262.7, 262.8, 262.81, 262.9, 271.6, 271.8, DIG.1 :IMAGE AVAILABLE:
- 93. 4,272,828, Jun. 9, 1981, **Arithmetic** logic apparatus for a data processing system; Virendra S. Negi, et al., 364/736.01, 768, 927.8, 931, 931.1, 933, 933.1, 933.2, 933.3, 933.5, 933.61, 933.7, 935, 935.2, 935.4, 937, 937.1, 937.2, 938, 938.1, 939, 939.7, 940, 941, 941.1, 942, 942.04, 942.7, 942.8, 943.9, 945.3, 945.6, 946.2, 946.6, 946.9, 947, 947.1, 947.5, 947.6, 948, 948.1, 948.3, 950, 950.1, 950.3, 951.5, 954, 954.1, 957, 957.4, 958, 958.2, 958.3, 960, 960.6, 961.1, 962, 962.1, 965, 965.5, 965.8, DIG.2 :IMAGE AVAILABLE:
- 94. 4,262,336, Apr. 14, 1981, Multi-axis contouring control system; Eric K. Pritchard, 364/474.11; 318/573, 696; 364/132, 174, 474.3, 474.31 :IMAGE AVAILABLE:
- 95. 4,247,893, Jan. 27, 1981, **Memory** interface device with processing capability; Jack L. Anderson, et al., 395/309; 364/238, 238.3, 238.4, 239, 239.1, 239.3, 240, 240.5, 244, 244.6, 247, 247.2, 247.4, 247.5, 247.6, 247.7, 247.8, 255.1, 255.2, 255.5, 258, 258.1, 259, 259.1, 259.3, 259.5, DIG.1 :IMAGE AVAILABLE:
- 96. 4,227,245, Oct. 7, 1980, Digital computer monitored system or process which is configured with the aid of an improved automatic programming system; Warren A. Edblad, et al., 364/468.01, 221, 221.2, 221.7, 221.9, 222.81, 222.82, 224, 224.2, 230, 230.1, 230.3, 230.4, 234, 235, 237.2, 237.8, 238, 242.1, 245, 245.1, 248, 248.1, 248.3, 259, 259.5, 262.4, 262.5, 267.9, 280, 281.3, 281.7, 281.8, 282.1, 282.3, 283.1, DIG.1:IMAGE AVAILABLE:
- 97. 4,215,407, Jul. 29, 1980, Combined file and directory system for a process control digital computer system; John W. Gomola, et al.,

- 364/468.01, 221, 221 2, 221.4, 221.7, 221.9, 222.81, 236.8, 226.9, 228.3, 230, 230.1, 230.2, 2 3, 230.4, 232.3, 234, 235, 236.2, 236.2, 236.3, 237.2, 237.4, 237.8, 258.1, 258.2, 258.3, 259, 259.5, 262.4, 262.5, 264, 280, 280.8, 281.3, 281.7, 281.8, DIG.1 :IMAGE AVAILABLE:
- 98. 4,215,406, Jul. 29, 1980, Digital computer monitored and/or operated system or process which is structured for operation with an improved automatic programming process and system; John W. Gomola, et al., 364/468.01, 221, 221.2, 221.4, 221.7, 221.9, 222, 222.81, 222.82, 230, 230.1, 230.3, 234, 237.8, 238.2, 238.3, 241.2, 242.1, 243, 243.2, 245, 245.5, 246, 246.3, 248.1, 251, 251.5, 252, 259, 259.3, 260.4, 260.6, 260.9, 261, 262.4, 262.5, 267, 267.1, 267.2, 267.4, 270.5, 270.8, DIG.1 :IMAGE AVAILABLE:
- 99. 4,202,035, May 6, 1980, Modulo addressing apparatus for use in a microprocessor; John H. Lane, 395/421.07; 364/223, 223.7, 224, 224.1, 224.2, 238.6, 238.7, 238.8, 240, 240.1, 240.2, 244, 244.3, 251, 251.5, 262, 262.1, 262.4, 262.5, 262.7, 270, 270.1, 736.5, DIG.1 :IMAGE AVAILABLE:
- 100. 4,201,908, May 6, 1980, Measurement and recording apparatus and system; Bernard A. Johnson, et al., 377/9; 340/941; 377/6, 26:IMAGE AVAILABLE:
- 101. 4,181,934, Jan. 1, 1980, Microprocessor architecture with integrated interrupts and cycle steals prioritized channel; George B. Marenin, 395/860; 364/231.4, 231.8, 232.3, 232.8, 238, 240, 240.1, 241.1, 241.2, 241.5, 241.9, 242.3, 242.31, 243, 243.3, 244, 244.3, 244.6, 245, 245.1, 247, 247.1, 247.2, 247.3, 247.6, 247.8, 251, 251.1, 252.3, 252.6, 254, 254.4, 254.6, 255, 255.1, 255.7, 258, 259, 259.1, 259.4, 259.5, 259.7, 260, 260.1, 261, 261.2, 261.3, 261.4, 261.5, 262.4, 262.5, 262.8, 263, 263.1, 263.2, 264, 264.4, 264.6, 265, 265.5, 266.3, 270, 270.3, 270.5, 270.6, 271.6, 271.7, DIG.1; 395/858 :IMAGE AVAILABLE:
- 102. 3,872,442, Mar. 18, 1975, SYSTEM FOR CONVERSION BETWEEN CODED BYTE AND **FLOATING POINT** FORMAT; John A. Boles, et al., 364/715.03, 231.9, 232.7, 243, 243.2, 243.6, 248.3, 260.4, 260.9, DIG.1 :IMAGE AVAILABLE:
- 103. 3,766,370, Oct. 16, 1973, ELEMENTARY **FLOATING POINT** CORDIC FUNCTION **PROCESSOR** AND SHIFTER; John S. Walther, 364/747, 231, 231.3, 232.9, 232.93, 244, 244.6, 258, 258.1, 258.2, 258.3, 258.4, 262.4, 262.8, 716.01, 719, 721, 722, DIG.1:IMAGE AVAILABLE:
- 104. 3,739,352, Jun. 12, 1973, VARIABLE WORD WIDTH **PROCESSOR** CONTROL; Roger E. Packard, 395/421.04; 364/238.4, 240.1, 243, 243.3, 243.7, 245, 245.1, 251, 251.1, 251.3, 252.3, 252.6, 254.9, 255.1, 255.5, 258, 258.1, 259, 259.3, 259.5, 260, 260.2, 261.3, 261.9, 262.4, 262.8, DIG.1 : IMAGE AVAILABLE:
- 105. 3,702,393, Nov. 7, 1972, CASCADE DIGITAL FAST FOURIER ANALYZER; Peter Siegfried Fuss, 364/726.02; 324/76.21, 76.35; 364/726.04 :IMAGE AVAILABLE:
- 106. 3,701,976, Oct. 31, 1972, **FLOATING POINT ARITHMETIC**UNIT FOR A PARALLEL PROCESSING COMPUTER; Richard Robert Shively,
 364/715.08, 223, 223.1, 225, 227, 227.2, 229, 229.2, 230, 230.3, 230.4,
 231.9, 258, 258.2, 258.4, 259, 259.4, 259.5, 259.7, 260.4, 260.9, 271.6,
 271.7, 768, DIG.1 :IMAGE AVAILABLE:
- 107. 3,626,427, Dec. 7, 1971, LARGE-SCALE DATA PROCESSING SYSTEM; Olin L. MacSorley, et al., 395/591; 364/231.4, 234, 237.2, 237.4, 241.2, 241.3, 246.6, 246.8, 258, 262, 263.1, 265, 266, 266.3, 270, DIG.1; 395/569 :IMAGE AVAILABLE: